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AJB3552



EN User manual

PHILIPS

Contents

1	Important	4
2	Your DAB+ clock radio	5
	Introduction	5
	What's in the box	5
	Overview of the main unit	6
3	Get started	8
	Prepare FM/DAB+ antenna	8
	Connect power	8
	Set clock	8
	Turn radio on/off	8
4	Listen to Digital Audio Broadcasts (DAB+)	9
	Tune to DAB+ radio stations	9
	Store DAB+ radio stations automatically	9
	Store DAB+ radio stations manually	9
	Search for DAB+ radio station manually	9
	Listen to a preset DAB+ radio station	10
	Show DAB+ information	10
	Remove invalid DAB+ station	10
	Select DRC setting	10
5	Listen to FM radio	11
	Tune to FM radio stations	11
	Store FM radio stations automatically	11
	Store FM radio stations manually	11
	Listen to a preset FM radio station	11
	Display RDS information	11
	Select FM radio searching scope	11
6	Other features	12
	Adjust system settings	12
	Set date and time format	12
	Select backlight settings	12
	Update software (if available)	13
	Set alarm timer	13
	Set the sleep timer	14
	Enhance bass	15
7	Product information	16
	Specifications	16
8	Troubleshooting	17
9	Notice	18
	Recycling	18

1 Important

- The apparatus shall not be exposed to dripping or splashing.
- Do not place any sources of danger on the apparatus (e.g. liquid filled objects, lighted candles).
- Never insert objects into the ventilation slots or other openings on the apparatus.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Where the plug of the Direct Plug-in Adapter is used as the disconnect device, the disconnect device shall remain readily operable.

2 Your DAB+ clock radio

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at www.philips.com/welcome.

Introduction

With this unit, you can:

- listen to FM or DAB+ (Digital Audio Broadcasting) radio
- know the time
- be waken up by DAB+/FM radio or buzzer alarm.

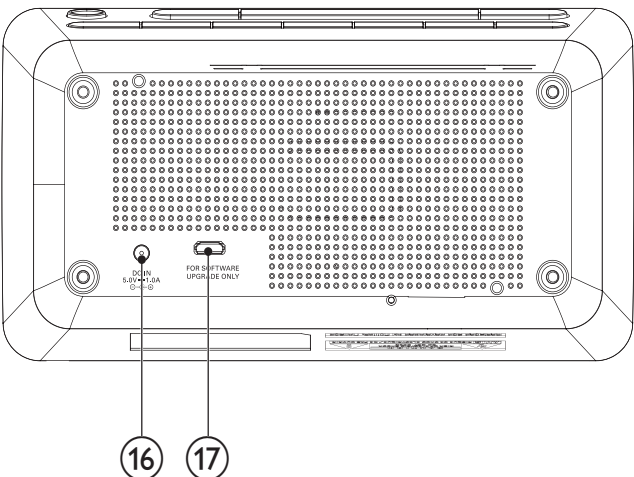
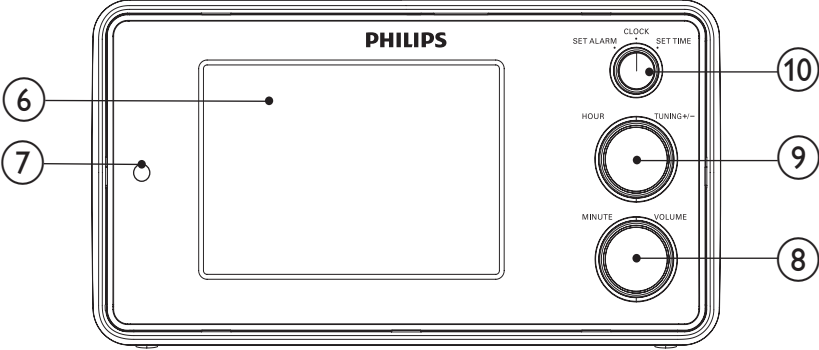
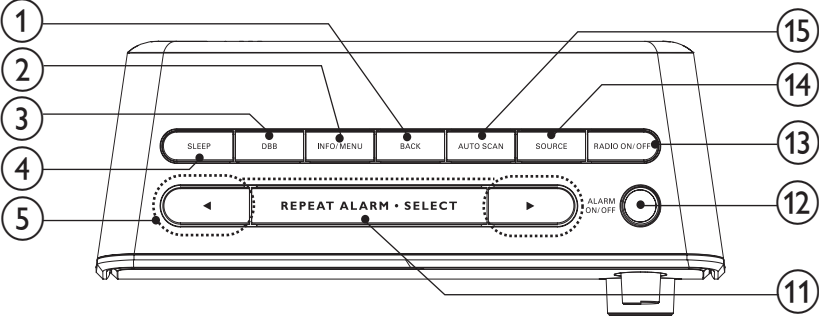
The unit offers Dynamic Bass Boost (DBB) to enrich sound.

What's in the box

Check and identify the contents of your package:

- Main unit
- Power adaptor
- User manual

Overview of the main unit



- ① **BACK**
 - Return to previous menu.
 - Cancel a selection.
- ② **INFO/MENU**
 - Access DAB+/FM menu.
 - Display DAB+/RDS information.
- ③ **DBB**
 - Turn on/off dynamic bass enhancement.
- ④ **SLEEP**
 - Set sleep timer.
- ⑤ ◀ / ▶
 - Navigate through the DAB+/FM menu.
 - Select a preset radio station.
 - Scan for previous/next radio station.
- ⑥ **Display panel**
 - Show status.
- ⑦ **Light sensor**
 - For backlight brightness adjustment.
- ⑧ **MINUTE/VOLUME**
 - Set minute.
 - Adjust volume.
- ⑨ **HOUR/TUNING +/-**
 - Set hour.
 - Tune to a radio station.
- ⑩ **SET ALARM/CLOCK/SET TIME**
 - Set alarm/time.
 - Switch to clock screen.
- ⑪ **REPEAT ALARM•SELECT**
 - Repeat alarm.
 - Confirm selection.
- ⑫ **ALARM ON/OFF**
 - Turn on/off alarm timer.
- ⑬ **RADIO ON/OFF**
 - Turn on/off radio.
- ⑭ **SOURCE**
 - Select DAB+/FM source.
- ⑮ **AUTOSCAN**
 - Scan radio stations.
 - Store favorite radio stations in memory.
- ⑯ **DC IN**
 - Connect power.
- ⑰ **FOR SOFTWARE UPDATE ONLY**
 - Update software via USB connector (if available).

3 Get started

If you contact Philips, you will be asked for the model and serial number of this apparatus. The model number and serial number are on the bottom of the apparatus. Write the numbers here:

Model No. _____

Serial No. _____

Prepare FM/DAB+ antenna

For better reception, fully extend and adjust the position of the FM/DAB+ antenna.

Note

- To prevent interference, position the antenna as far as possible from TV, VCR, or other radiation source.

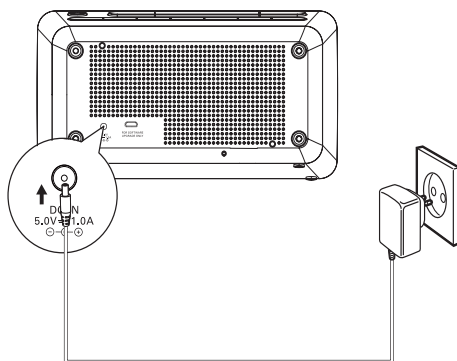
Connect power

Caution

- Risk of product damage! Ensure that the power voltage corresponds to the voltage printed on the back or underside of the apparatus.
- Risk of electric shock! When you unplug the AC adaptor, always pull the plug from the socket. Never pull the cord.
- Before connecting the AC adaptor, ensure that you have completed all other connections.

Note

- The type plate is located on the bottom of the main unit.



Set clock

- 1 In standby mode, rotate **SET ALARM/CLOCK/SET TIME** to the **SET TIME** position.
↳ The hour and minute digits begin to blink.
- 2 Rotate **HOUR** to set the hour.
- 3 Rotate **MINUTE** to set the minute.
- 4 Rotate the **SET ALARM/CLOCK/SET TIME** to the **CLOCK** position to confirm.

Turn radio on/off

In standby mode, press **RADIO ON/OFF** to turn on the radio.

- ↳ The last listened DAB+ or FM station broadcasts automatically.

Tip

- You can also turn on the radio by pressing **SOURCE** repeatedly.
- To turn off the radio, press **RADIO ON/OFF** again.

4 Listen to Digital Audio Broadcasts (DAB+)

Digital Audio Broadcasting (DAB+) is a way of broadcasting radio digitally through a network of transmitters. It provides you with more choice, better sound quality, and more information.

Tune to DAB+ radio stations

Note

- Make sure that the antenna is fully extended.

- 1 Press **SOURCE** repeatedly to select DAB mode.
↳ **[FULL SCAN]** (full scan) is displayed.
- 2 Press **SELECT** to start full scan.
↳ The unit stores all the available DAB+ radio stations and then broadcasts the first available station.
↳ The station list is memorized in the unit. When you turn on the unit next time, the station scan does not take place.
↳ If no DAB+ service is available, **[No DAB Station]** (no DAB+ station) appears, then **[FULL SCAN]** (full scan) is displayed.

To tune to a station from the available station list:

- 1 In DAB+ mode, rotate **TUNING +/-** to navigate the available DAB+ stations.
- 2 Press **SELECT** to confirm.

Store DAB+ radio stations automatically

Tip

- New stations and services will be added in the DAB+ broadcast. To make new DAB+ stations and services available, perform full scan regularly.

In DAB+ mode, press and hold **AUTO SCAN** for 3 seconds.

- ↳ The unit scans all the available DAB+ radio stations and broadcasts the first available station.

Store DAB+ radio stations manually

You can store up to 20 DAB+ radio stations in preset channel.

- 1 Tune to a DAB+ radio station.
- 2 Press **AUTO SCAN**.
↳ The preset channel number is displayed.
- 3 Press **◀ / ▶** repeatedly to select a number: 1- 20.
- 4 Press **SELECT** to confirm.
- 5 Repeat steps 1-4 to store other stations.

Note

- To remove a pre-stored DAB+ radio station, store another station in its place.

Search for DAB+ radio station manually

- 1 In DAB+ mode, press and hold **MENU** for 3 seconds.
- 2 Press **◀ / ▶** to select **[Manual tune]**, then press **SELECT**.
- 3 Rotate **TUNING +/-** to navigate DAB+ radio frequency.

- 4 Press **SELECT** to confirm.
↳ Searching starts.
- 5 When searching is complete, press **SELECT** again to start playing.

Listen to a preset DAB+ radio station

- 1 Press ◀ / ▶ to select a preset DAB+ radio channel.
- 2 Press **SELECT** to confirm.

Show DAB+ information

While listening to DAB+ radio, press **INFO** repeatedly to scroll through the following information (if available):

- ↳ Dynamic Label Segment (DLS)
- ↳ Signal strength
- ↳ Program type (PTY)
- ↳ Ensemble Name
- ↳ Channel and frequency
- ↳ Signal error rate
- ↳ Bit rate and audio status
- ↳ Date

Remove invalid DAB+ station

You can remove all invalid stations from the available DAB+ station list.

- 1 In DAB+ mode, press and hold **MENU** for 3 seconds.
- 2 Press ◀ / ▶ repeatedly until **[Prune]** is displayed.
- 3 Press **SELECT** to confirm.
↳ **[No][Yes]** is displayed.
- 4 Press ◀ / ▶ to select **[Yes]**.
- 5 Press **SELECT**.
↳ All invalid stations are removed.

Select DRC setting

While listening to DAB+ radio, you can change DRC (Dynamic Range Control) settings to add/remove a degree of compensation for audio performance.

- 1 In DAB+ mode, press and hold **MENU** for over 3 seconds.
- 2 Press ◀ / ▶ until **[DRC]** is displayed.
- 3 Press **SELECT** to confirm.
- 4 Press ◀ / ▶ repeatedly to select an option:
 - **[DRC off]**: DRC is switched off.
 - **[DRC high]**: DRC is switched on. Recommend using this setting in noisy environment.
 - **[DRC low]**: DRC is set to half normal level.
- 5 Press **SELECT** to confirm the selection.

5 Listen to FM radio

Tune to FM radio stations



Tip

- Position the antenna as far as possible from TV, VCR, or other radiation source.
- For optimal reception, fully extend and adjust the position of the antenna.

- 1 Press **SOURCE** repeatedly to select FM tuner.
- 2 Press and hold ◀ or ▶.
 - ↳ The radio tunes to a station with strong reception automatically.
 - ↳ To tune to a weak station, rotate **TUNING +/-** until you find optimal reception.

Store FM radio stations automatically

- 1 In FM radio mode, press and hold **AUTO SCAN** for 3 seconds.
 - ↳ Up to 20 FM stations with strong signal are stored in channel 1 - 20.
 - ↳ The station stored in channel 1 starts broadcasting.

Store FM radio stations manually

- 1 Tune to an FM radio station.
- 2 Press **AUTO SCAN**.
 - ↳ The preset channel number is displayed.
- 3 Press ◀ / ▶ to select a channel: 1-20.
- 4 Press **SELECT**.
 - ↳ The selected FM radio station is saved in the channel.
- 5 Repeat steps 1-4 to store other stations.



Note

- To remove a pre-stored FM radio station, store another station in its place.

Listen to a preset FM radio station

- Press ◀ / ▶ to select a preset number.
- ↳ The station starts broadcast in a few seconds.

Display RDS information

Radio Data System (RDS) is a service that sends additional broadcast information along with FM stations. If you listen to an FM station with RDS signal, "RDS" is displayed.

Press **INFO/MENU** to display RDS information such as PTY (program type) and station name.

Select FM radio searching scope

Before you start to search for FM radio stations, you can select searching scope.

- 1 Press **INFO/MENU** for over 3 seconds.
- 2 Press ◀ or ▶ until **[Scan setting]** is displayed, then press **SELECT**.
- 3 Press ◀ or ▶ to select an option:
 - **[Strong stations only]**: Only stations with strong signals can be searched.
 - **[All stations]**: Stations with both strong and weak signals can be searched.
- 4 Press **SELECT** to confirm.

6 Other features

Adjust system settings

- 1 In DAB+ or FM mode, press **INFO/MENU** for 3 seconds to display system menu.
- 2 Press ◀ / ▶ repeatedly until **[System]** is displayed.
- 3 Press **SELECT** to confirm.
- 4 Repeat steps 2-3 to select an option.
- 5 Press **BACK** to exit.

[Time]	[Set 12/24 hour]	Select 12-hour mode or 24-hour mode.
	[Set date]	Set date.
	[Auto update]	Select how to update time.
	[Set date format]	Select display format of date.
[Backlight]	[Time out]	Select when to turn off the backlight.
	[On level]	Select backlight level.
[Factory Reset]	[Yes]	Reset all the settings to factory default.
	[No]	Cancel.
[SW version]		Display software version.
[Software Upgrade]	[Yes]	Select to update software
	[No]	Cancel.

Set date and time format

- 1 Enter system setting menu.
- 2 Press ◀ / ▶ repeatedly until **[Time]** is displayed, then press **SELECT**.
- 3 Press ◀ / ▶ to select an option, then press **SELECT** to confirm.

Options	Sub-menu	Description
[Set 12/24 hour]	[Set 12 hour]	Time is displayed in 12-hour mode.
	[Set 24 hour]	Time is displayed in 24-hour mode.
[Set date]		Set date.
[Auto update]	[Update from DAB]	To synchronize time from DAB+ stations.
	[No update]	Time will not be synchronized.
[Set date format]	[DD-MM-YYYY]	The date is displayed in day, month, year sequence.
	[MM-DD-YYYY]	The date is displayed in month, day, year sequence.

- 4 To exit, press **BACK**.

Select backlight settings

- 1 Enter system setting menu.
- 2 Press ◀ / ▶ repeated until **[Backlight]** is displayed, then press **SELECT**.
- 3 Press ◀ / ▶ to select an option, then press **SELECT** to confirm.

Options	Sub-menu	Description
[Time out]	[OFF]	The backlight is always on.
	[10 sec]	The backlight turns off 10 seconds after operation.
	[30 sec]	The backlight turns off 30 seconds after operation.
	[60 sec]	The backlight turns off 60 seconds after operation.
	[120 sec]	The backlight turns off 120 seconds after operation.
[On level]	[Auto]	The backlight is automatically adjusted.
	[High]	The backlight is bright.
	[Medium]	The backlight is at medium level.
	[Low]	The backlight is dim.

4 To exit, press **BACK**.

Update software (if available)

Software upgrade for your radio may be available in future. If you register your product at Philips website (www.philips.com/welcome) with a valid email address, you may receive software update notification. Or you can visit Philips website constantly to check if the updating information is provided.

To update software of your radio, follow these steps strictly:

- 1** Read software update instructions on Philips website carefully.
- 2** Download the latest software to your PC, then connect it to your radio via USB port.
- 3** In FM/DAB+ mode, enter system setting menu.
- 4** Press ◀ / ▶ repeatedly until **[Software Upgrade]** (software upgrade) is displayed.

- 5** Press **SELECT** to confirm.
- 6** Follow the instructions on the screen to complete upgrade.



Note

- If you select **[Software upgrade]** without downloading the latest software or connecting to PC via USB port, you need power off and restart the radio.
- If upgrade is interrupted by accident, you must power off the radio and reinstall the software, otherwise your radio cannot work normally.

Set alarm timer

- 1** Make sure that you have set the clock correctly.
- 2** In standby mode, rotate **SET ALARM/CLOCK/SET TIME** to the **SET ALARM** position.
↳ The alarm icon blinks.
- 3** Rotate **HOUR** to set the hour.
- 4** Rotate **MINUTE** to set the minute.
- 5** Rotate the **SET ALARM/CLOCK/SET TIME** to the **CLOCK** position to confirm.

Adjust alarm setting



Note

- You need to set date before selecting alarm mode.

- 1** Press **RADIO ON/OFF** to enter standby mode, if necessary.
- 2** Press **INFO/MENU** for over 3 seconds.
↳ **[Alarm Wizard]** is displayed.
- 3** Press ◀ / ▶ repeatedly to select:
 - **[Source Buzzer]**: Select buzzer as alarm sound.
 - **[Source DAB]**: Select last listened DAB+ radio as alarm sound.
 - **[Source FM]**: Select last listened FM radio as alarm sound.

- 4 Press **SELECT** to confirm.
↳ Sub-menu is displayed.

[Daily]		The alarm is activated everyday.
[Weekends]		The alarm is activated on Saturday and Sunday.
[Weekdays]		The alarm is activated from Monday to Friday.
[Once]	[xx-xx-xxxx] (Set date)	The alarm is activated only once. Need to set date.

- ↳ If [Source DAB] or [Source FM] is selected, [last listened] is displayed. Press **SELECT** to confirm.

- 5 Press ◀ / ▶ to select an option, then press **SELECT**.
↳ A volume bar is displayed.

- 6 Press ◀ / ▶ to select the volume of the alarm sound, then press **SELECT** to confirm.

- 7 Press ◀ / ▶ to select duration, then press **SELECT** to confirm.
- [15 minutes]: The alarm sounds for 15 minutes.
 - [30 minutes]: The alarm sounds for 30 minutes.
 - [45 minutes]: The alarm sounds for 45 minutes.
 - [60 minutes]: The alarm sounds for 60 minutes.
 - The unit takes a few minutes to save the alarm setting. Wait until it is saved.

Activate or deactivate the alarm timer

- 1 Press **ALARM ON/OFF** repeatedly to activate or deactivate the alarm timer.
↳ [Alarm On] or [Alarm Off] is displayed.

Repeat alarm

When alarm sounds, press **REPEAT ALARM**•**SELECT** repeatedly to select snooze interval:

- [Snooze 5 minutes]: The alarm repeats in 5 minutes later.
- [Snooze 10 minutes]: The alarm repeats in 10 minutes later.
- [Snooze 15 minutes]: The alarm repeats in 15 minutes later.
- [Snooze 20 minutes]: The alarm repeats in 20 minutes later.
- [Snooze 25 minutes]: The alarm repeats in 25 minutes later.
- [Snooze 30 minutes]: The alarm repeats in 30 minutes later.

Note

- Only when alarm duration is set as 45 minutes or 60 minutes, there is the option of [Snooze 30 minutes].
- When the time is selected, snooze countdown is displayed.

Stop alarm sound

When the alarm sounds, press **ALARM ON/OFF**.

- ↳ The alarm stops but the alarm settings remain.

Set the sleep timer

This unit can switch to standby automatically after a period.

- 1 Press **SLEEP** repeatedly to select time period:
- [15 minutes]
 - [30 minutes]
 - [45 minutes]
 - [60 minutes]
 - [90 minutes]
 - When the sleep timer is activated, **zzz** is displayed.



Tip

- To deactivate the sleep timer, press **SLEEP** repeatedly until **[Sleep off]** (sleep off) is displayed.

Enhance bass

Press **DBB** repeatedly to turn on/off dynamic bass enhancement.

7 Product information



Note

- Product information is subject to change without prior notice.

Specifications

Amplifier

Rated Output Power	1.5 W RMS
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Tuner

Tuning Range	FM: 87.5 - 108MHz DAB+: 174.92 - 239.20MHz
Tuning grid (FM)	50 KHz
Sensitivity	
- Mono, 26dB S/N Ratio	< 22dBf
Search Selectivity	< 28dBf
Total Harmonic Distortion	< 2%
Signal to Noise Ratio	>55 dB
Number of presets	20 (FM) 20 (DAB+)

General information		
AC/DC adaptor	(Input)	100-240V~, 50/60 Hz, 0.5A
	(Output)	5V === 1.0A
	(Brand name)	Philips
	(Model number)	AS100-050-AE100
Operation Power Consumption		2W
Standby Power Consumption		<1W
Dimensions		172 x92 x 72 mm
Weight		0.5 kg

8 Troubleshooting



Warning

- Never remove the casing of this apparatus.

To keep the warranty valid, never try to repair the system yourself.

If you encounter problems when using this apparatus, check the following points before requesting service. If the problem remains unsolved, go to the Philips web site (www.philips.com/welcome). When you contact Philips, ensure that the apparatus is nearby and the model number and serial number are available.

No power

- Ensure that the AC power plug of the unit is connected properly.
- Ensure that there is power at the AC outlet.

No sound

- Adjust the volume.

No response from the unit

- Disconnect and reconnect the AC power plug, then turn on the unit again.

Poor radio reception

- Increase the distance between the unit and your TV or VCR.
- Fully extend the FM antenna.

Timer does not work

- Set the clock correctly.
- Switch on the timer.

Clock/timer setting erased

- Power has been interrupted or the power plug has been disconnected.
- Reset the clock/timer.

9 Notice



This product complies with the radio interference requirements of the European Community.

Philips Consumer Lifestyle may void the user's authority to operate the equipment.

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Recycling



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When you see the crossed-out wheel bin symbol attached to a product, it means the product is covered by the European Directive 2002/96/EC:



Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potentially negative consequences on the environment and human health.

Environmental information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet.)

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Any changes or modifications made to this device that are not expressly approved by

